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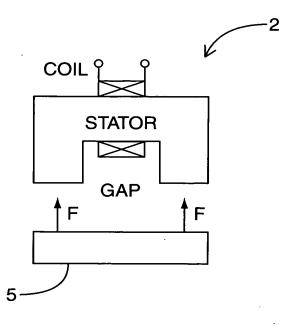
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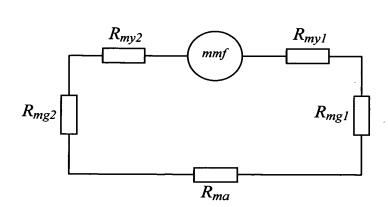
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$$R_{mk} = \frac{L_{mk}}{\mu_{mk} \lozenge A_{mk}}$$

$$R_{me} = \sum_{k} R_{mk}$$

$$\Phi = \frac{mmf}{R_{me}}$$

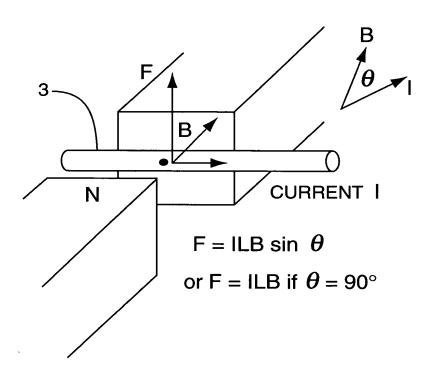
 $mmf = N \lozenge I$

FIG. 1 PRIOR ART



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$$F = qvB \sin \theta$$

$$F = q \frac{L}{t} B \sin \theta$$

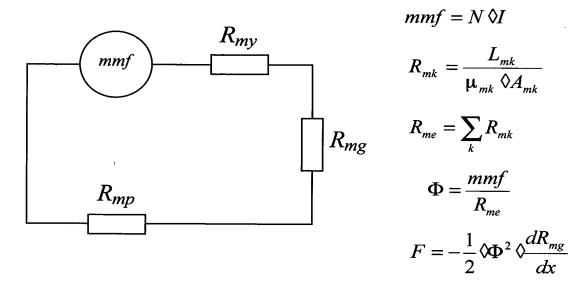
$$F = \frac{q}{t} LB \sin \theta$$

$$F = ILB \sin \theta$$

<u>FIG. 2</u> PRIOR ART



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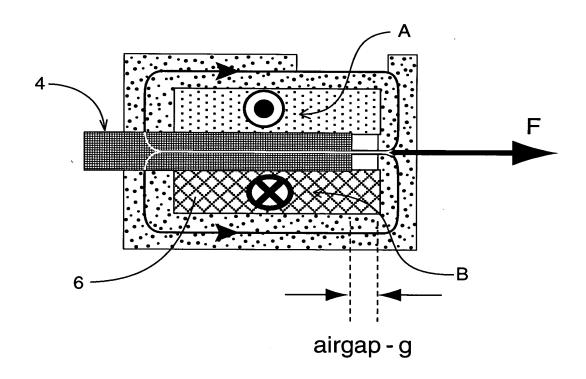


FIG. 3 PRIOR ART



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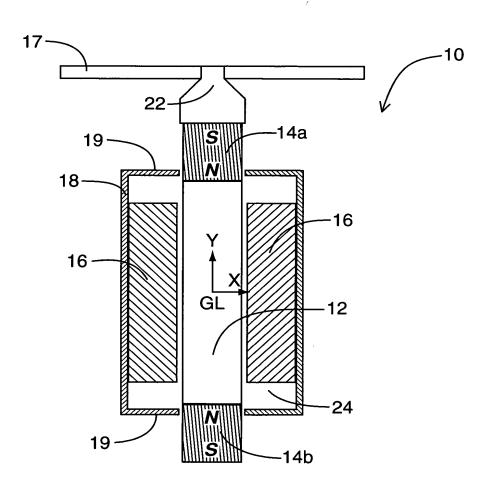


FIG. 4



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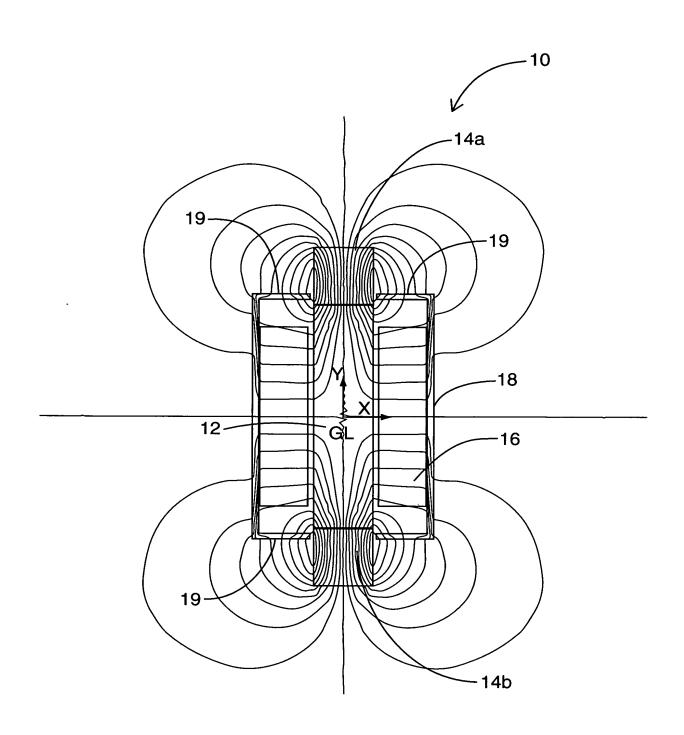


FIG. 5A



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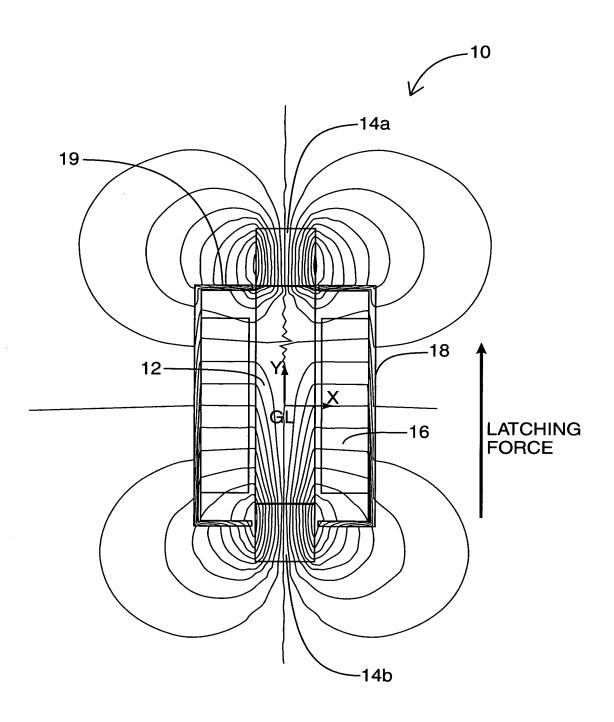


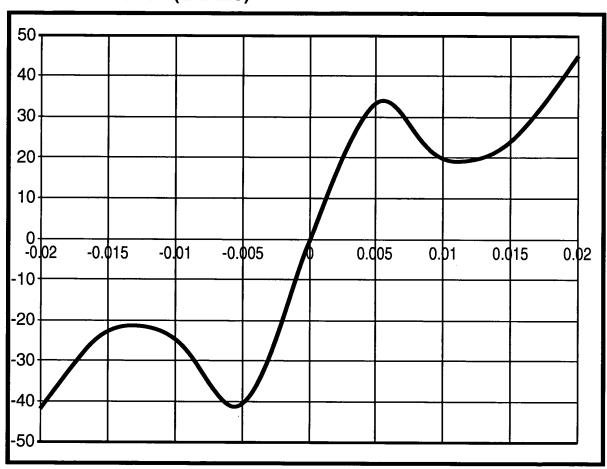
FIG. 5B



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LATCHING FORCE (GRAMS)



POSITIONAL DISPLACEMENT (INCHES)



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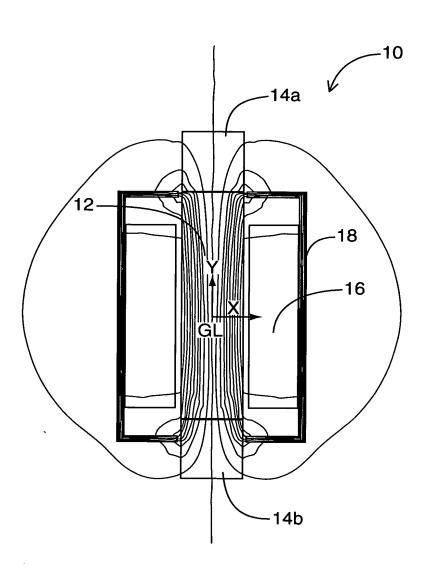


FIG. 6



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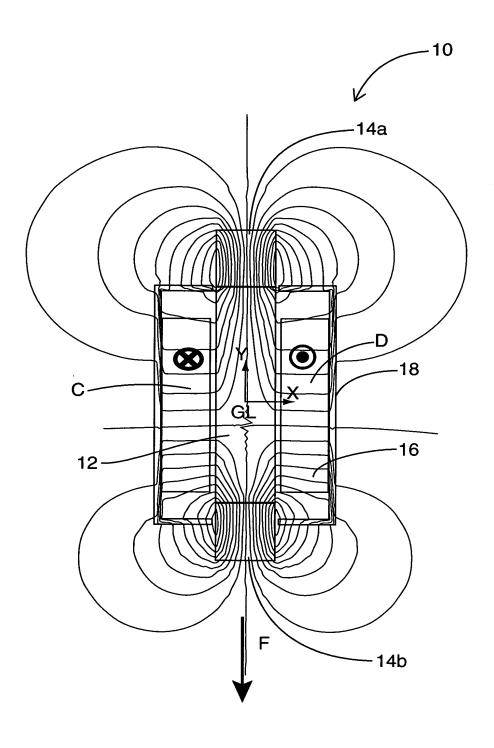


FIG. 7A



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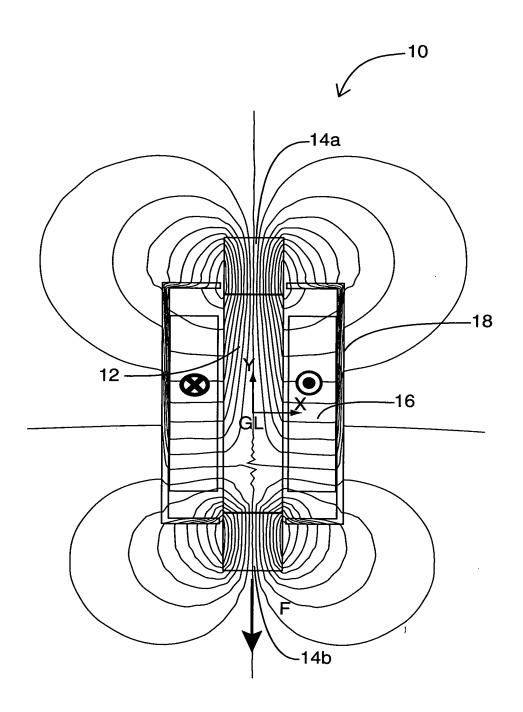


FIG. 7B



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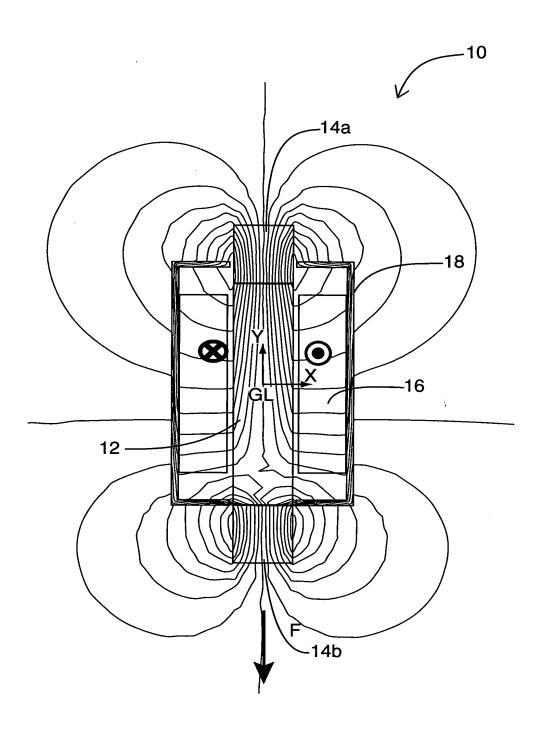


FIG. 7C



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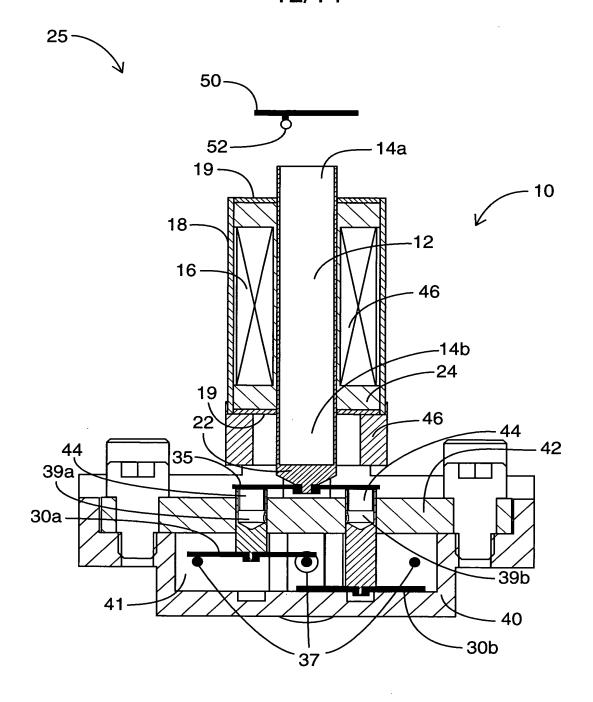
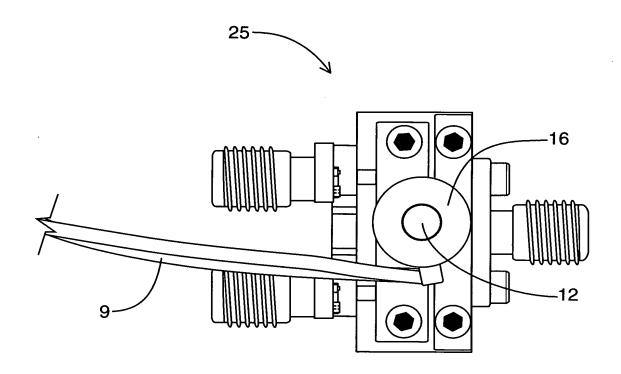


FIG. 8A

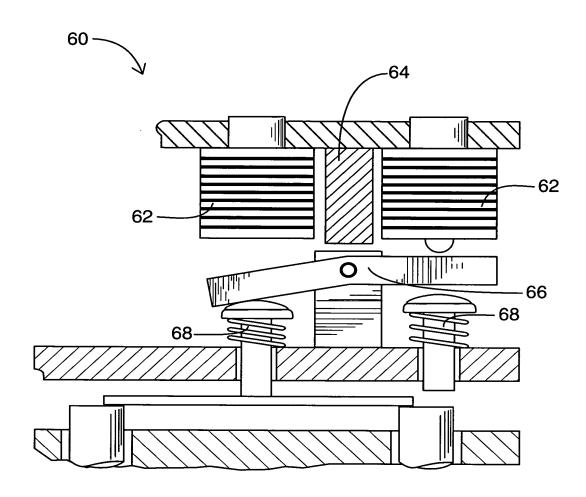


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<u>FIG. 9</u> PRIOR ART